

Business Communications Manager 2.5

Base Unit

Physical Dimensions

Depth	18.3 in. (with bezel in place); 46.5 cm
Width	17.5 in.; 44.5 cm
Height	7.1 in.; 18.0 cm
Full standard system with 4 PCI cards and 3 Media Bay Modules	38.3 lb.; 17.4 kg
Full redundant system with 4 PCI cards and 3 Media Bay Modules	44.9 lb; 20.14 kg

Power Supply Specifications

Standard Power Supply	Redundant Power Supply
Autosensing	Autosensing
300 Watts	300 Watts
115/230 VAC	100 to 127 VAC or 200 to 240 VAC
6.5 A/3.5 A	7.0 A/3.5 A
50/60 Hz	47/63 Hz

Environmental Specifications

Operating Temperature Range	32° to 104° F; 0° to 40° C
Operating Humidity Range	10% to 90% relative humidity, non-condensing
Storage Temperature	-58° to 158° F; -50° to 70° C
Storage Humidity	up to 95% relative humidity

Vibration

Operation	GR-63
Packaged Transportation	GR-63
Mechanical Shock	IEC 68-2-27
Packaged Bounce	IBM CH 1-9711-005

Regulatory Compliance

FCC Part 15, Class A
FCC Part 68
Industry Canada CS-03
CSA C22.2 No 950-95
UL 1950 Edition III
EN 60950, amendments 1, 2, 3, and 4.
CISPR 22/EN 55022- Class A
ICES-003 Class A
EN 50082-1:1992 /EN 55024

Mounting Options

Rack-mount (standard 19-inch rack)
Stand-alone
Wall-mount

Base Unit Components

Three Media Bay Module slots	
CPU	Intel Pentium III @700 MHz 256 MB SDRAM 20 GB hard disk
LEDs	Power, Hard Drive activity, Voice Applications status, PCI Device status, Power, Fans, and Temperature
System Status Monitor Card	Controls and monitors fans, power supply, chassis temperature, and OS status

Telephony Components

Media Services Card

One 8-pin modular jack (RJ-45) connection for Expansion Chassis	
Four 3.5 mm (1/8 inch) standard miniature stereo (3-conductor) Safety Extra Low Voltage (SELV) jacks for auxiliary ringer, page relay, page output, and music on hold	
Auxiliary ringer	switch capacity of 50mA (non-inductive) at 40 V (maximum)
Page Relay	switch capacity of 50mA (non-inductive) at 40 V (maximum)
Page Output	600 ohms impedance
Music on hold	mono input
Four Media Services Processor Expansion Card slots	

16 Digital Station Media Bay Module (DSM 16)

One Amphenol female connector (25-pair)	
16 digital phone ports	
Individual interfaces are current limited to 80 mA	
Two LEDs: Power, Status	

32 Digital Station Media Bay Module (DSM 32)

Two Amphenol female connectors (25 pair)	
32 digital phone ports	
Individual interfaces are current limited to 80 mA	
Two LEDs: Power, Status	

Analog Station Media Bay Module (ASM 8)

One Amphenol female connector (25 pair)	
8 analog phone ports	
Maximum modem connection speed: 28.8 Kbps	
Two LEDs: Power, Status	

Digital Trunk Media Bay Module (DTM)

One 8-pin RJ-45C modular jack	
T1 trunk interface with integrated CSU (supports DSX-1 and DS1 interfaces)	
24 B channels with T1 interface	
23 B channels with North American PRI interface	
30 digital channels with ETSI PRI Interface	
LEDs: Power, Status, In-service, Loop-back Test, Receive Alarm, Receive Error, Transmit Alarm, Transmit Error	

CLID Trunk Media Bay Module (CTM4)

Four modular RJ-11 jacks for analog North American Standard CLASS/CMS loop start lines	
One modular RJ-11 jack auxiliary port for V.90 modem, fax, single analog telephone connection, or Power Fail Transfer	
Two LEDs: Power, Status	

CLID Trunk Media Bay Module (CTMB)

Eight modular RJ-11 jacks for analog North American Standard CLASS/CMS loop start lines
Two modular RJ-11 jack auxiliary port for V.90 modem, fax, single analog telephone connection, or Power Fail Transfer
Two LEDs: Power, Status

Basic Rate Interface Media Bay Module (BRIM S/T)

Four modular RJ-11 jacks
Supports four S/T interfaces (8 B-channels)
T-interface to connect to a NT1 device or a S-interface to connect ISDN terminals.
Supports ETSI and National ISDN BRI
Two LEDs: Power, Status

Fiber Expansion Media Bay Module (FEM)

Six fiber ports
Connects up to six Norstar® fiber-based trunk or station modules
Two LEDs: Power, Status

4x16 Combo Module (4 Caller ID trunks + 16 Station sets)

Four modular RJ-11 jacks for analog North American Standard CLASS/CMS loop start lines
One modular RJ-11 jack auxiliary port for V.90 modem, fax, or single analog telephone connection
One Amphenol female connector (25 pair)
16 digital phone ports
Individual interfaces are currently limited to 80 mA
Two LEDs: Power, Status

Data Networking Components

V.90 Modem Card

North America only for Dial Backup or Remote Admin
RJ-11 connector
V.90 56 Kbps ITU standard
V.34 33.6 Kbps ITU standard
V.42/MNP 2-4 error control
V.42/MNP 5 data compression
Capable of receiving data at 56 Kbps and sending data at 31.2 Kbps

10/100 Ethernet LAN Interface

10/100BASE-T Ethernet PCI Network Interface Card (up to 2)
Supports IEEE 802.3 Ethernet frame format
Uses Carrier Sense Multiple Access with Collision Detection (CSMA/CD)
100BASE-TX with RJ-45 connector
10/100 Autosense
Full-duplex support
Fast LAN to LAN routing
LAN traffic smoothing
IPX support
PPPoE

WAN Interface

Two Port PCI card

Each port can be independently configured to Frame Relay or PPP
STAC compression is available
The North American version includes one serial sync port (V.35) and one T1 port with integrated CSU and DSU connectivity
The international version includes two serial ports (V.35 and X.21)

ISDN via MBMs

Up to 16 ISDN B-channels (PRI or BRI) (optional)
MLPPP
Dial on demand, Persistent, or WAN Backup

Expansion Cabinet

Connections

Six Media Bay Module slots
A DS 256 Connector for the interface to the Business Communications Manager base unit (5 meter cable)

Standard Expansion

Depth	18.3 in.; 46.5 cm
Width	17.5 in.; 44.5 cm
Height	5.4 in.; 13.6 cm
Expansion Cabinet with no Media Bay Modules	24.75 lb.; 11.25 kg
Expansion Cabinet with six Media Bay Modules	39 lb.; 17.75 kg

Redundant Expansion

Depth	20 in.; 53.8 cm
Width	17.6 in.; 44.6 cm
Height	5.4 in.; 13.6 cm
Expansion Cabinet with no Media Bay Modules	31.9 lb.; 14.5 kg
Expansion Cabinet with 6 Media Bay Modules	46.2 lb.; 21 kg

Power requirements

Typical	30 W
Maximum	100 W

Environmental ranges

Operating Temperature Range	32° to 104° F; 0° to 40° C
Operating Humidity Range	10% to 90% relative humidity, non-condensing

Mounting options

Rack-mount (standard 19-inch rack)
Stand-alone
Wall-mount

Telephones and Adapters

Station Sets

Norstar		Business Series Terminals
North America	International	
M7100	M7100N	T7100
M7208	M7208N	T7208
M7310	M7310N	T7316
M7324	M7324N	
Audio Conferencing Unit		

IP Stations

i2004 Internet Telephone
i2002 Internet Telephone
i2050 Software Telephone

Mobility – Companion*

Multi-cell roaming and handoff
UPCS Standard (1.9 GHz PCI) – U.S.
CT2 PLUS (944 to 948.5 MHz) – Canada
Expandable coverage and user density
Full Business Communications Manager integration
DECT (European only)

Mobility – e-mobility* VoIP Wireless

DataVision Phone (Wireless VoIP)
NetVision Phone (Data over IP)

Mobility – Cordless

T7406

Accessories

Busy Lamp Field (BLF)
Central Answering Position (CAP), also known as Key Lamp Module (KLM)
Station Auxiliary Power Supply (SAPS)
ATA-2 Analog Terminal Adapter (separate models for NA and Europe)



For more information, contact your Nortel Networks representative or call 1-800-4-NORTEL.

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